## *RIVER HERRING POPULATION IN THE ST. CROIX RIVER*:

# FISH COUNTS AT MILLTOWN DAM

<u>Photo</u> by Bruce Richardson

The St. Croix International Waterway Commission is an international nonprofit partnership that protects and enhances the health, heritage and beauty the St. Croix waterway.

Established in 1986 by the State of Maine and the Province of New Brunswick to develop and facilitate the implementation of an international management plan for the St. Croix Watershed.

Extends the full length of the St. Croix boundary waters, from their origin at Monument Brook to their confluence Passamaquoddy Bay (185km/110mi).



## History of the SCIWC

### St. Croix River

Basin area: 1,505.79 sq miles (3,900 km<sup>2</sup>)
Length: 71 miles (114 km)
Towns/Cities: Calais, St. Stephen
Mouth: Passamaquoddy Bay
Source: Chiputneticook Lakes
Location: International boundary between Canada and the
United States between New Brunswick and Maine

### Projects of the SCIWC

**Recreation – Operate campsites in the St. Croix watershed** 

Fish tagging – Tag river herring at Moosehorn NWR

Water quality – Monitoring ~30 sites in the St Croix

Fish count – Monitoring fish passage at Milltown Dam





## History of the St. Croix River

- A river that boundaries three nations
  - Passamaquoddy Tribe and Peskotomuhkati Nation, United States, Canada
- Passamaquoddy name for the river is Schoodic/Skutik
- St. Croix Island was location of early French settlement in 1604
- River wasn't charted clearly until 1794, and the boundary was under dispute until 1842.
- Trade corridor to Maine and NB. Important corridor for industries including log driving, tanneries, and mills
- St Croix is a Canadian and American Heritage River



### RIVER HERRING OF THE ST CROIX RIVER

### Locations of Dams on the St. Croix River





AERIAL VIEW OF MILLTOWN GENERATING STATION



# Milltown Dam Fish Passage

Since 1981 river herring have been counted as they pass through the fishway at Milltown Dam in St. Stephen NB

Guides on upper part of the watershed blamed a decline in smallmouth bass populations on alewife

1988 – Passage was blocked at Vanceboro Dam

1995 – Alewife passage blocked at Grand Falls and Woodland fishway

#### **RIVER HERRING POPULATION IN THE ST. CROIX**



 With Grand Falls blocked, the alewife lost 94% of their habitat

- Traditionally spawned in Spednic and Grand Lake

 Since fish passage has been restored, population has been increasing at a steady rate Reintroduction of river herring benefits the watershed

St Croix estimated to be able to hold 20 million alewife

Food chain – provides food for many organisms from zooplankton to eagles

Alewife floaters help filter the water

Increased herring population is also beneficial to the marine environment





# Thank you

### St. Croix International Waterway Commission

www.stcroix.org

43 Union Street PO Box 610 Calais ME 04619

PO Box 2 St. Stephen NB E3L 2W9

207-952-9069 207-952-9088